L 21039-6	5 I NR: 1	IR4039960	#				والمستنافع مراسية			
fungi, at display a earlier.		and the second second	pergillu Lty agai	s flavus	Dink test	apecies microbes	were i	Cound toned	0	
SUB CODE:	LS		ENGL:				·.			
									Maria de la companya	
Car@/2										

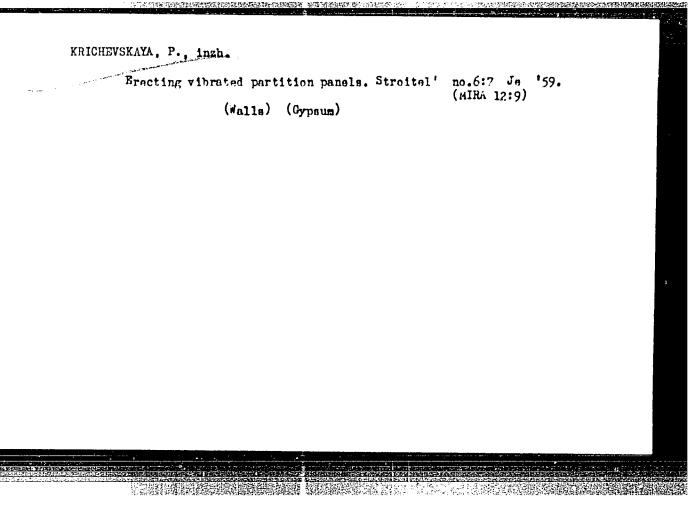
HATTER HER STANDARD S AFUL/AMD/APGC(c) Pb-4/Pa-4 s/0299/64/000/009/B023/B023 ACCESSION NR: AR4039957 SOURCE: Ref. zh. Biol. Sv. t., Abs. 9B172 Krichevskaya, M. Z. AUTHOR: TITLE: Soil fungi of the Chaetomium genus and their antagonistic activity CITED SOURCE: Sb. Materialy 3-y Nauchn. sessii Leningr. in-ta antibiotikov, 1963. L., 1963, 40-41 TOPIC TAGS: fungus, soil, Chaetomium, bacteria, antibiosis; bacteriology TRANSLATION: 2,303 fungi strains were isolated from 179 soil samples. Fungi of the Chaetomium genus were represented by 30 strains; they were related to 4 species (Chaetomium spirochaete, Ch. fieberi, Ch. perlucidum, and Chaetomium sp. nova). Ch. spirochaete (8 strains) displayed activity against some gram-positive bacteria, acidoresistant Bacillus B5 and fungi. Ch. perlucidum inhibited the development of, Chadosporium herbarum (phytopathogenic fungus). Ch. fieberi (one Card 1/2

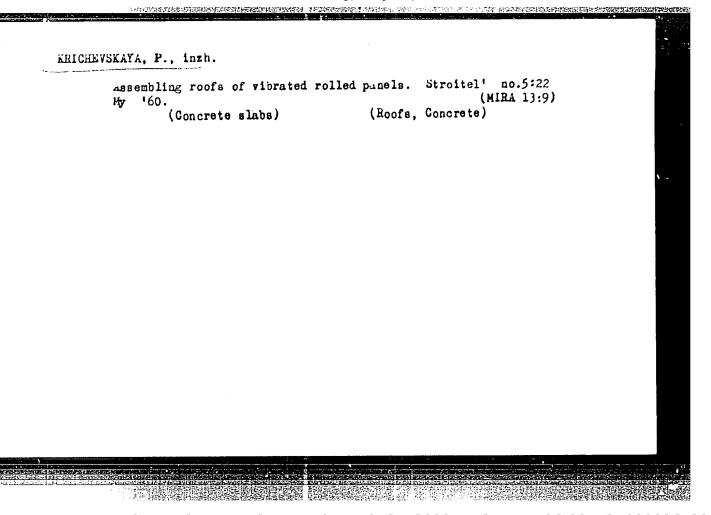
I. 21042-65 ACCESSION NR: AR4039957			2	
strain) displayed activity agai	nst Bac. subti	is. From a r		
SUB CODE: LS ENCL:	00	ભાગેનામાં સમજાતા હતા. જો એક્સમાં અલ્લામાં		
		THE MARK		
Cord 2/2				Visit in the second
				2

ACCESSION HRI AP	3004341	8 (0020 / 5 / 600 /	The state of the s
AUTHORS: Entohave		5/0078/65/008/008/1806	/1808
nisimov, K. W.	skaya, O. D.; Belozerskiy, N. Germsyahov, A. N.	A.; Sagal', L. D.; Kolobov	a. N. Ye.:
TTLE: Kinetics o	of thermal decomposition of se	olid metal carbonyl compoun	79
OURCE: Zhurnal n	eorganicheskoy khimii, v. 6,	no. 8. 1963, 1806-1809	
CPIC TAGS: carbo	nyl, solid carbonyl, molybder	mm, manganese cyclopentadio	enyl~
BSTRACT: Authors	about About to		
arbonyl/Mo(CO)6 al	nd manganese cyclopentadienyl ion of molybdenum carbonyl va	tricarbonyl compounds: mo	ybdenum
AGOO WILH HR TRANS	NA A A A A		
and happe ARW 1815	Annual 9	CATELLES ABILIA & BEARING	i l
ctivation energy w	reactions of the above compass calculated from a graph.	ounds follow the first law.	• It The
be E = 17.5 kcal	reactions of the above composes calculated from a graph.  /mole and for C_H5Mn(CO)_3, E  1 table.	The value for Mo(CO) was	found
SSN: STATE INSTI	TUTE FOR MICKEL INDUSTRY PLAN	WITHOUTH OF ORCE	rt.
d 1/2/	NDS, ACADEMY OF SCIENCES, SS	SR.	TAKEN NUMBER

#### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826430





KRICHEVSKAYA, S. Ya.

KRICHEVSKAIA, S. IA., POPOVA, D. N.

On the question of oral administration of penicillin to infants during the first six months. Vopr. pediat. 18:5, 1950. p. 6-9

1. Of the Department of Hospital Pediatrics (Head - Prof. A. F. Tur) and of the Department of Microbiology (Head - Prof. V. H. Barnan), Leningrad State Pediatric Medical Institute (Acting Director - Prof. Yu. A. Kotikev).

CLML 20, 3, March 1951

L 41184-65

ACCESSION NR: AP4044343

5/0286/64/000/013/0081/0081

AUTHOR: Vishnevskiy, A. P.; Krichevskaya, V. L.; Sigorskiy, V. P.; Sitnikov,

L. S.; Utyakov, L. L.

TITLE: An accumulating impulse counter. Class 42, No. 163810

SOURCE: Byulleton' izobreteniy i tovarny\*kh snakov, no. 13, 1964, 81

TOPIC TACS: impulse counter, capacitance, spectrotron

ABSTRACT: This Author Certificate presents a capacitive accumulating impulse count er (see Fig. 1 of the Enclosure), utilizing a spectrotron as an element for fixing the position of the circuit. This feature enlarges the frequency range of the impulse count and maintains sustained stability in counting infrequent and random impulses. Orig. art. has: 1 figure.

ASSOCIATION: Institut matematiki i vy\*chislitel'ny\*y tsentr Sibirskogo otdeleniya AN SSSR (Institute of Hathematics and Computer Center, Siberian Division, AN SSSR)

SUBMITTED: 20Mar63

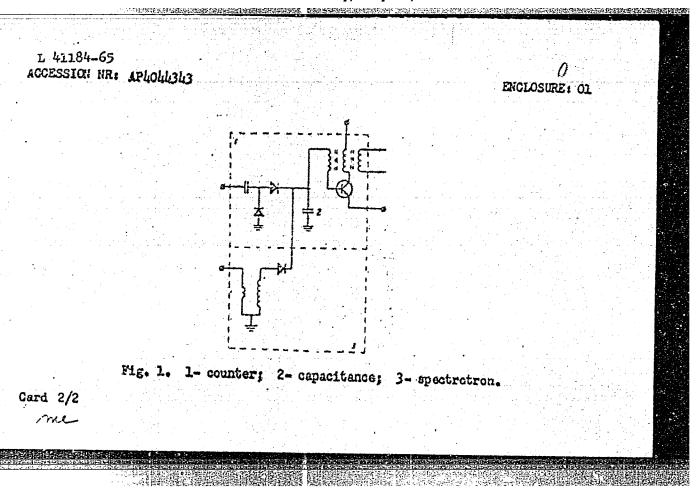
ENCL: 01

SUB CODE: EC

NO REF SOV: 000

OTHER: COO

Card 1/2



#### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826430

L 20937-66 ENT(1)/E/A(h)

ACC NR: AP6002563

SOURCE CODE: UR/0286/65/000/023/0058/0059

AUTHORS: Vishnevskiy, A. P.; Krichevskaya, V. L.; Tarasov, A. A.

15

ORG: none

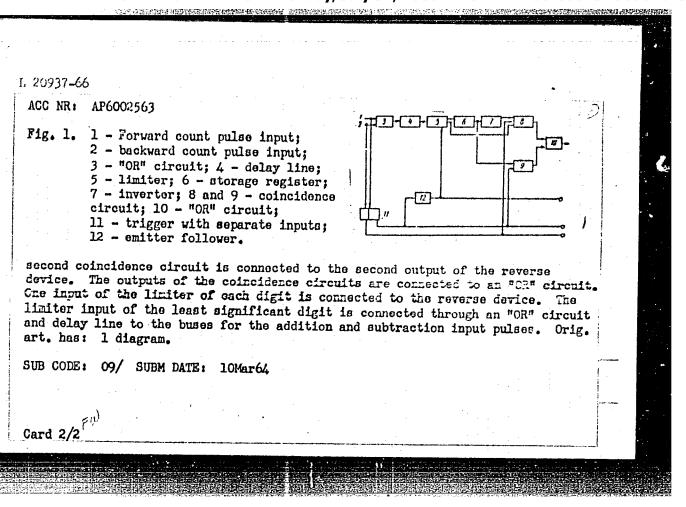
TITLE: Reversible pulse counter. Class 42, No. 176716 [announced by Institute of Mathematics SO AN SSSR (Institut matematiki SO AN SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 58-59

TOPIC TAGS: pulse counter, computer circuit

ABSTRACT: This Author Certificate presents a reversible pulse counter containing a shift pulse shaper in each digit and a device for changing the count direction. To simplify the reversible counter circuit, each digit of the pulse counter is made on a storage register. The input of the storage register is connected to the first output of a limiter, and the output is connected through an inverter to the first input of the first coincidence circuit (see Fig. 1). The second input of this coincidence circuit is connected to the first output of the reverse device, and the third input is connected to the second output of the limiter and to the first input of the second coincidence circuit. The second input of the Card 1/2

UDC: 681.142.07:621.374.32



ACC NRI ARGO32067

SOURCE CODE: UR/0271/66/000/007/B030/B030

AUTHOR: Krichevskaya, V. L.; Litvinchuk, N. I.

TITLE: Synthesis of logic circuits using semiconductor harmonic-frequency elements (spectrotrons)

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel naya tekhnika, Abs. 7B214

REF SOURCE: Sb. Poluprovodnik. elementy v vychisl. tekhn. M., 1965, 128-135

TOPIC TAGS: logic circuit, logic element, spectrotron, harmonic frequency element

ABSTRACT: A high-stability logic element (a spectron using internal feedback) is examined and the possibility of accomplishing logic functions by using a harmonic frequency representation of variables is studied. The spectrotron utilizes a circuit which is returned at the resonant-circuit frequency. The number of stable states is determined by the number of spectral components which get into the circuit retuning band. The operation of such a circuit is characterized by the following

在中国的时间的图像的形式中的图像 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000

Card 1/2

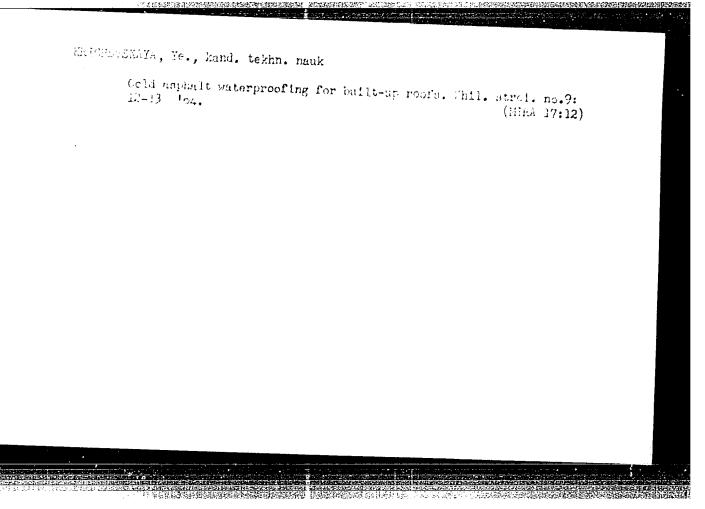
UDC: 681.142.67:621.382

# ACC NR: AR6032067

three time cycles: 1) transmission of the "overshoot" signal, which prepares the spectrotron for the reception of information; 2) supply of information to the inputs with simultaneous cessation of the "overshoot" signal; 3) at the moment when transmission of information is ended, a supply voltage whose spectrum contains 2 components with frequencies  $f_1$  and  $f_2$  is transmitted to the spectrotron. The supply voltage sustains the stable state into which the spectrotron was set under the action of the information signal. The various logical elements which can be obtained on one spectrotron are investigated. It is shown that a full logic system may be realized by means of two spectrotrons. The original has 7 illustrations and 2 tables. [Translation of abstract]

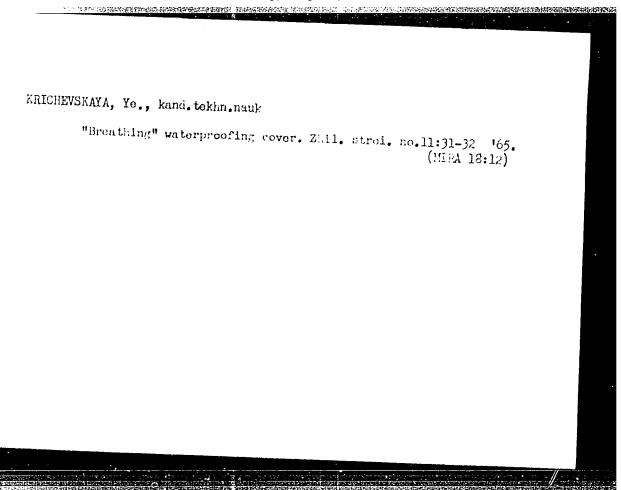
SUB CODE: 09/

Card 2/2



FOLOMIN, A., doktor tekhn.nank; KRICHEVSKAYA, Ye., kand.tekhn.nauk; KLEPATSKIY,  $G_{\bullet,p}$  inzh.

New instructions for designing roofs without attic floors. Zhil.stroi. no.12:26-29 \*64. (MIRA 18:2)

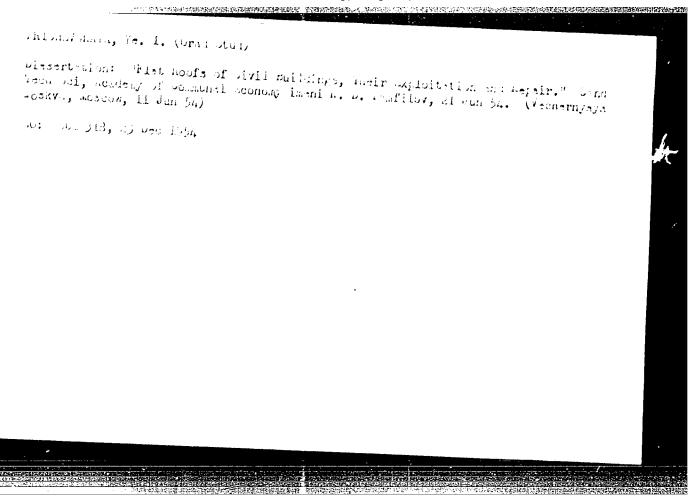


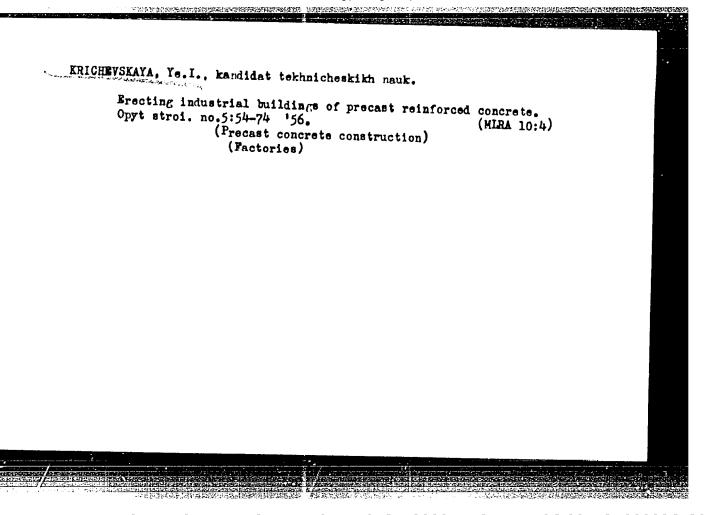
KRICHEVSKAYA, Ye. G.

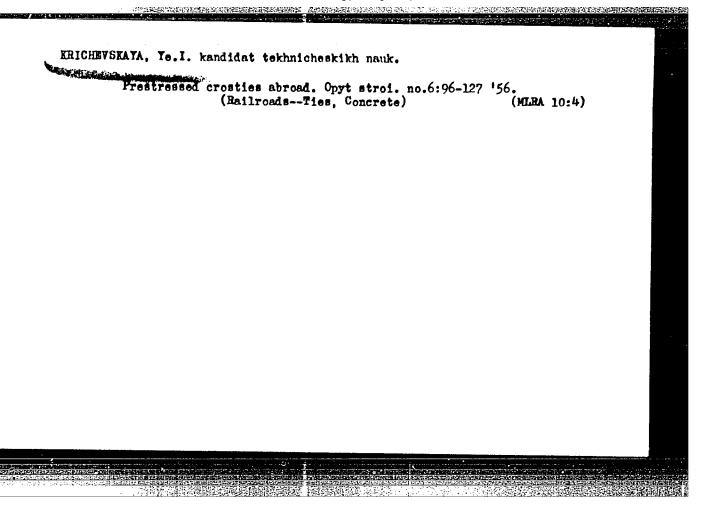
Krichevskaya, Ye. G. - "Analycis of materials from the Institute's Polyclinic for 1947," Trudy Rost. rentgono-radiol. i onkol. in-ta, Issue 2, 1948, p. 12-18

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

Tekhnicheskeya ekspluatatoiya i remont ploskikh krysk grazhdanskikh zosniy (Teshnical improvement and remair of flat roofs of municipal buildings) Foskva, lzd-vc Ministerstva Kommunal'nogo Khozyaystva ROFSR, 1953. 64 p. Illus., diagra., "Literatura" p. (66) At head of title: Akademiya Kommunal'nogo Khozyaystva.  N/5 748.1
At head of title: Akademiya Ecorunal'nogo Khozyaystva.  M/5
N/5 748.1







IRICHEVSKAYA, Ye.I., kandidat tekhnicheskikh nauk.

Hew standard plans for precast reinforced concrete one-story industrial buildings. Opyt stroi. no.7:44-60 '56.

(Precast concrete construction)

(Industrial buildings)

KRICHEVSKAYA, Ye.I., kandidat tekhnicheskikh nauk.

Precast reinforced concrete poles for transmission lines.
Biul.stroi.tekh.13 no.8:38-42 Ag '56. (MLRA 9:10)

1.TSentral'nyy institut informatsii po stroitel'stvu.
(Blectric lines--Foles)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826430(

KRICHEVSKAYA, Ye.I., kendidat tekhnicheskikh nauk.

Precnet reinforced concrete construction of the casting yard area of the no.1 BIS furnace of the Stalin metallurgical plant.Biul.stroi. tekh.13 no.11:11-15 N \*56. (MIRA 10:1)

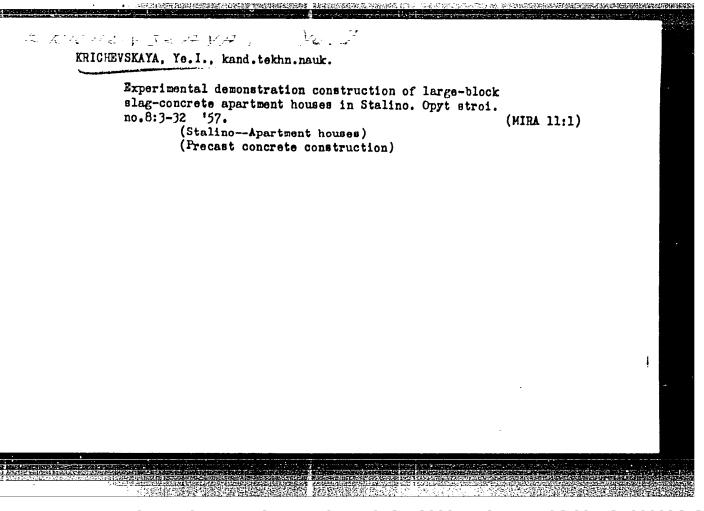
1. TsINIS Akademii stritel'stva i arkhitektury SSSR.

(Blast furnaces) (Precast concrete construction)

HOVIKOV, I.I., kand.iskusstvovedeniya arkh.; MAHDRIKOV, A.P., kand.tekhn.
nauk; SEDOV, A.P., kand.erkhitektury; KONYUSHKOV, A.H., kand.tekhn.
nauk; SOKOLOV, Ye.B., kend.erkhitektury; SHATSKIY, Ye.Z., kand.
tekhn.nauk; KRICHEVSKAYA, Ye.I., kand.tekhn.nauk; SHIEIMA, L.A.,
kand.tekhn.nauk; KOVEL'MAN, I.A., kand.tekhn.nauk; AGASYAN, A.A.,
kand.tekhn.nauk; USENKO, V.M., kand.tekhn.nauk, nauchnyy red.;
RARSKOV, I.M., iznh., nauchnyy red.; YUDIMA, L.A., red.izd-va;
PECHKOVSKAYA, T.V., tekhn.red.

[Building practices in the peoples' democracies. Based on reports by delegations of Soviet biulders] Opyt stroitel'stva za rubezhom; v stranakh narodnoi demokratii. Po materialam ochetov ielegatsii sovetskikh spetsialistov-stroitelei. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit., 1957. 253 p. (HIRA 11:4)

1. Sotrudniki TSentral'nogo instituta nauchnoy informatsii po stroitel'stvu i arkhitekture Akademii stroitel'stva i arkhitektury SSSR (for Novikov, Mandrikov, Sedov, Konyushkov, Sokolov, Shatskiy, Krichevskaya, Shleina, Kovel'man, Agasyan) (Building)



KRICHEVSKAYA, Te.I., kand. tekhn. nauk.

Plat roofs used as heliports. Biul. stroi. tekh. 14 no.9:33-35 s'57. (MIRA 10:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'stva Akademii stroitel'stva i arkhitektury SSSR. (Roofs) (Heliports)

KRICHEVSEAYA, Ye.I., kand.tekhn.nauk

Sloping precast reinforced concrete roofs of apartment houses and public buildings abroad. Opyt etroi. no.12:61-95 '58.

(Roofing, Concrete)

(Roofing, Concrete)

KRICHEVSKAYA, Ye.I., kand. tekhn. nauk.

Now types of flat roofs abroad. Biul. stroi. tekh. 15 no.5:30-33 My 158. (MIRA 11:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut streitel'stva Akademii streitel'stva i arkhitektury 888R. (Roofing, Concrete)

Wrichevskaya, Ye.I., kand.tekhn.nauk

Using large coarse porous sandless blocks in building apartment houses in the Far Morth. Buil.stroi.tekh. 15 no.11:36-39 N '58.

(MIRA 11:12)

(Pechenga District-Apartment houses)

Constructing the main building of the tire plant in Krasnoyarsk.

Opyt stroi. no.16:51-94 '58. (Krasnoyarsk-Industrial buildings)

(Krasnoyarsk--Precast concrete construction)

KKICHEVSKAYA, Ye. 1.

KUZNETSOV, G.F.; KHLUSOV, I.Ye., kand.tekhn.nouk; SHOLOKHOV, V.G., inzh..

Prinimali uchastiye: AKBULATOV, Sh.F., kand.tekhn.nouk;

KRICHEVSKAYA, Ye.I., kand.tekhn.nouk; DOROKHOV, A.N., inzh.;

NIKIFOROV, I.A., kand.tekhn.nouk; BOGDANOV, B.N., inzh.; AVRU
TIN, Yu.Ye., inzh.; VISHNEVSKIY, N.D., inzh.; ARIYEVICH, E.M.,

kand.tekhn.nouk; LEVITAN, Ye.P., inzh.; TUPOLEV, M.S., prof.,

doktor arkhitektury. TEMKIN, L.Ye., inzh., red.; KHAVIN, B.N.,

red.izd-ve; BOROVNEV, N.K., tekhn.red.

[Temporary instruction (SN 51-59) for planning and constructing combined roofs of residential and public buildings] Vremennye ukazaniia po proektirovaniiu i ustroistvu sovmeshchennykh krysh (pokrytii) zhilykh i obshchastvennykh zdanii (SN 51-59). Moskva. Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959.

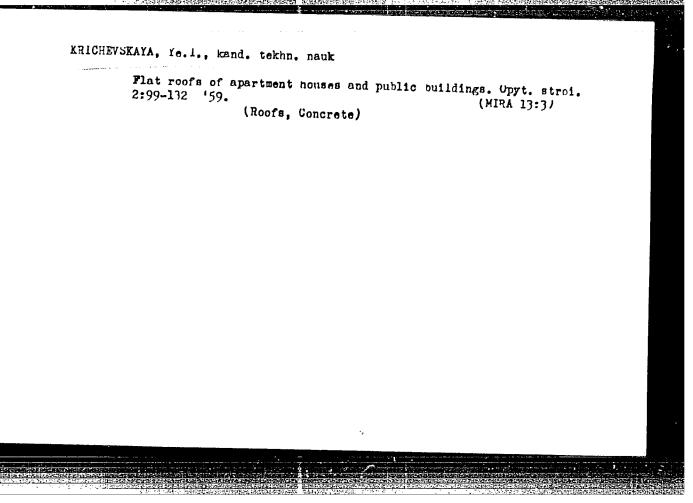
(MIRA 13:1)

(Continued on next card)

. KUZNETSOV, G.F.---(continued) Gard 2.

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Hauchno-issledovatel'skiy institut stroitel'noy fiziki i ograzhdoyushchikh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Kuznetsov, Khlusov, Sholokhov).

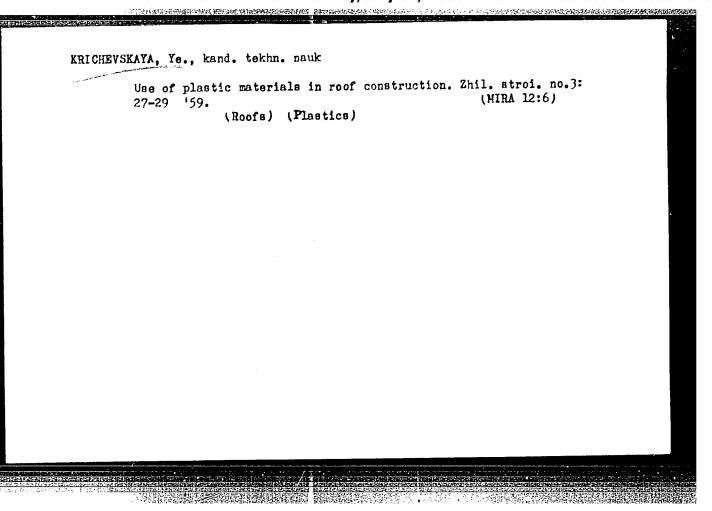
3. Direktor Nauchno-issledovatel'skogo instituta stroitel'noy fiziki i ograzhdoyushchikh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR; deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Kuznetsov). 4. Nauchno-issledov.institut zhilishcha (for Akbulatov, Krichevskaya). 5. Nauchno-issledov.institut proyektirovaniya Akademii stroitel'stva i arkhitektury SSSR (for Dorokhov). 6. Nauchno-issledov.institut po stroitel'stva Minstroya RFSFR (for Mikiforov). 7. Gorstroyproyekt (for Bogdanov). 8. Mosproyekt (for Avrutin, Vishnevskiy). 9. Akademiya kommunal'nogo khozyaystva in. K.D. Pamillova (for Ariyevich, Levitan). 10. Moskovskiy arkhitekturnyy institut (for Tupolev). (Roofs, Concrete)

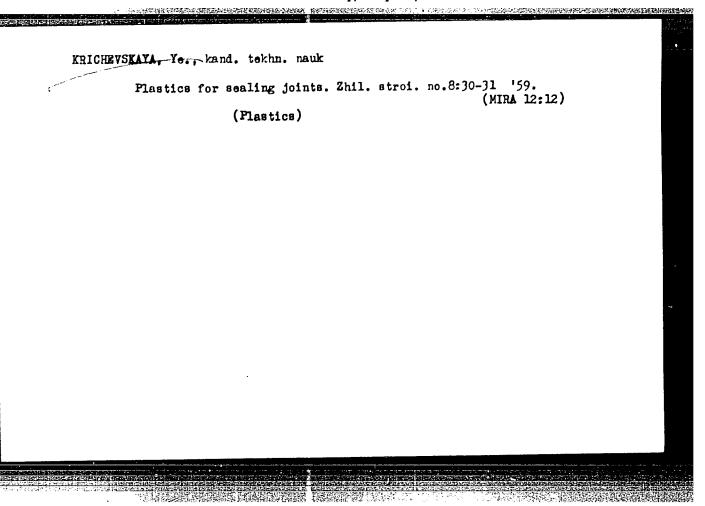


KRICHEVSKAYA, Ye., kand. tekhn. nauk

Synthetic floors in apartment houses and public buildings abroad. Na stroi. Mosk. 2 no.9:31-32 S '59. (MIRA 13:2)

1. Nauchno-issledovatel'skiy institut eksperimental'nego proyektirovaniya Akademii stroitel'stva i arkhitektury SSSR. (Floors) (Synthetic products)





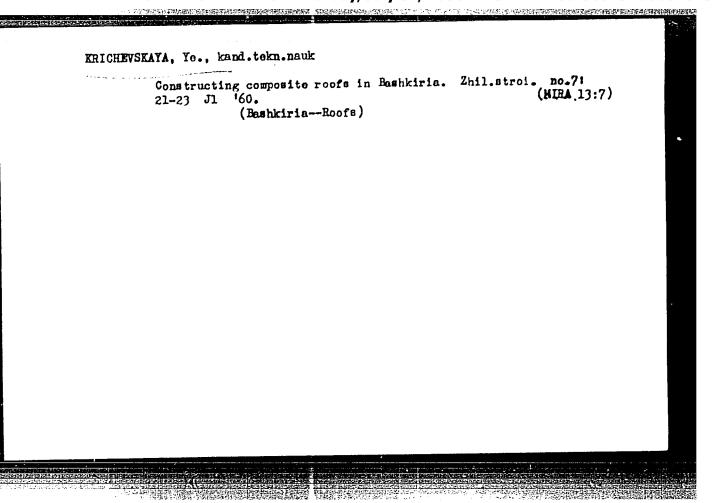
KRICHEVSKATA, Ye., kand.tekhn.nauk

Prestressed reinforced concrete electric-line supports in Kungary. Biul.stroi.tekh. 16 no.2:35-39 F '59.

(MIRA 12:2)

1. Nauchno-issledovatel'skiy institut zhilishcha, Akademii stroitel'stva i arkhitektury SSER.

(Hungary-Electric lines-Poles) (Prestressed concrete)



MRICHEVSKAYA, Ye., kand.tekhn.nauk

Details of built-up roofs. Zhil.stroi. no.5:26-29 My 161.

(Roofs)

## "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826430

KRICHEVSKAYA, Ye., kand tekhn.nauk

Dreinage from built up roofs. Zhil. stroi. no.5:12-13 '62.

(MINA 15:6)

(Drainage, House)

ARIYEVICH, Eleozar Moiseyevich; KRICHEVSKAYA, Ye.I., red.;
SUKHAREVA, E.S., red.izd-va; SALAZKOV, N.P., tekhn.red.

[Maintenance of apartment-house roofs] Tekhnicheskaia ekspluatataiia kryen zhilykh domov. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1963. 110 p. (MIRA 17:1)

VAYNBERG, G.D., inzh.; KRICHEVSKAYA, Ye.I., kand. tekhn. nauk;

MAZALOV, A.N., inzh.; HOZENFEL¹D, A.G., inzh.; FOLCHIN,

A.I., doktor tekhn. nauk; TESLER, P.A., kand. tekhn. nauk;

SHOLOKHOV, V.G., arkhit.; RUBAHEHKO, B.R., glav. red.;

ROZANOV, N.P., zam. glav. red.; OHUFRIYEV, I.A., red.;

YUDIN, Ye.Ya., red.; NASONOV, V.N., red.; ISIDOROV, V.V.,

red.; MAKARICHEV, V.V., red.; POLUBNEVA, V.I., inzh., red.

[Improving the durability of industrial built-up roofs]
Voprosy povysheniia dolgovechnosti industrial nykh sovmeshchennykh krysh. Moskva, Gosstroiizdat, 1962. 43 p.
(MIRA 17:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatol'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. TSentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut industrial'nykh, zhilykh i massovykh kul'turno-bytovykh zdaniy Akademii stroitel'stva i arkhitektury SSSR (for Vaynberg, Krichevskaya, Mazalov, Rozenfel'd, Folomin).
3. Nauchno-issledovatel'skiy institut stroitel'noy fiziki Akademii stroitel'stva i arkhitektury SSSR (for Sholokhov).
4. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR, Perovo (for Tesler).

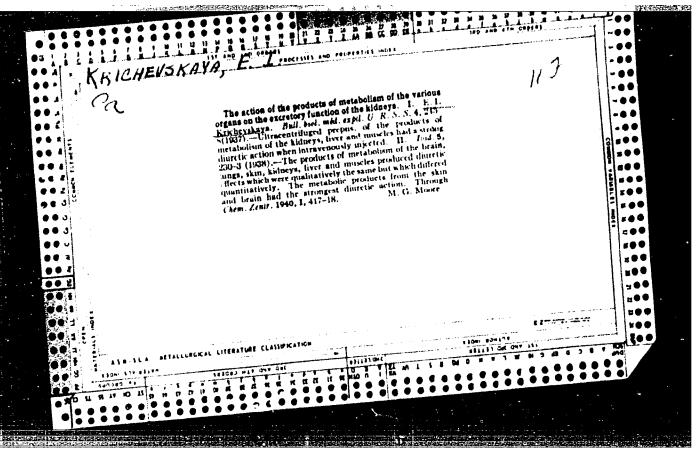
AVRUTIII, Yuliy Yefremovich, inzh.; KRICHEVSKAYA, Yelizaveta Iosifovna, kand. tekhn. nauk; LEVITAII, Yefim Petrovich, kand. tekhn. nauk; TUPOLEV, Mikhail Sergeyevich, doktor arkhitekt; FOLOMIN, Aleksandr Ivanovich, doktor tekhn. nauk;

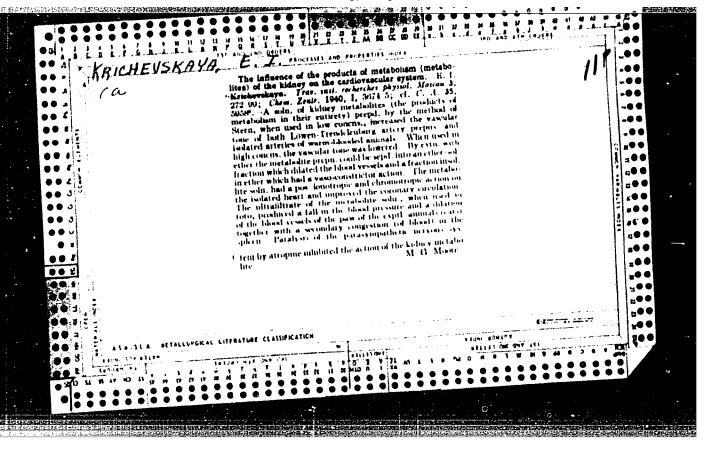
[Precast reinforced concrete roofs for large-scale construction] Sbornye zhelezobetonnye kryshi dlia masso-vogo stroitel'stva. [By] IU.E.Avrutin i dr. Moskva, Stroitzdat, 1965. 222 p. (MIRA 18:4)

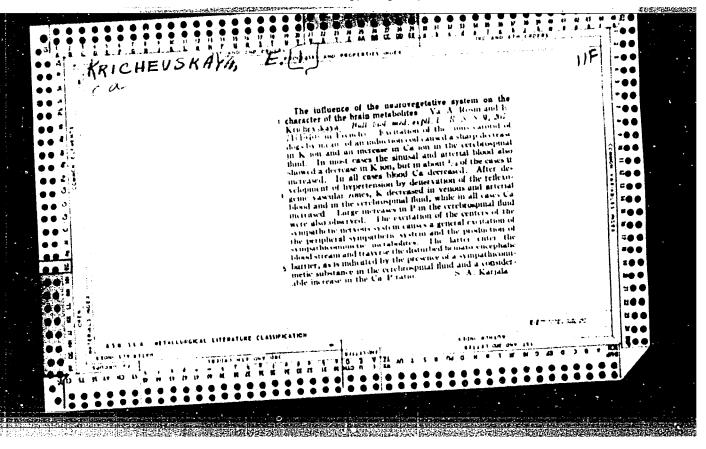
ELEPAT. ELY. E.'., Inch., red.; FOLCMIN, A.I., Goktor teknn. rack, red.; KMICHIWEKAYA, Ye.I., kand. tekhn. nack, red.

[Instructions on designing built-up roofs for epartment and public buildings] Ukazaniia po proektirovaniiu bes-cherdachnykh krysh shilykh i obshchestvennykh zimii (EN 51-64). Izd. ofitsial'noc. Moskva, Streilmiat, 1995.

. Russia (1923- U.S.S.h.) Gomidanstvennyy komitet jo grazhdanskomu stroitel'stvu i arkhitekture. 2. Gordanstvennyy komitet po grazhdanskomu stroitel'stvu i arkhitekture pri Gosstroye SUSR (for Klepatskiy). 3. Tuentralinyy nauchno-issledovatel'skiy i proyektryy institut tipovogo i eksperimental'nego proyektirovaniya zhilisneha (for Felomin, Krichevskaya).







KRICHEVSKAYA, Ye.I.; MAYTINA, R.A.; SOMINA, S.I.

Role of biologically active substances of the skin in the pathogenesis of itching. Vop.med.khim. 3:114-125 '51. (MIRA 11:4)

1. Biokhimicheskaya laboratoriya TSentral'nogo kozhno-venerologicheskogo instituta, Moskva.

(PRURITIS) (HISTAMINE) (ACETYLCHOLINE)

KRASHOV, M.L., professor.; KRICHEVSKAYA Ya.I., kandidat meditsinskikh nauk.; SHAKHNOVICH, S.I., kandidat meditsinskikh nauk.; SHUL'PINA, N.B. kandidat meditsinskikh nauk.; OEL'PMAN, A.Ya.vrach.

Dicoumarin in a thromboembolic syndrome of the retinal blood vessels. Vest. oft. 68 no.1:3-8 Ja-F '56 (MIRA 9:5)

1. Iz kafedry glaznykh bolezney TSentral'nogo instituta usovershenstvovaniya vrachey (zav.-prof. M.L. Krasnov) i Moskovskoy glaznoy klinicheskoy bol'nitsy (glav. vrach-I.A. Lyubchenko) (RETIMA--BLOOD SUPPLY)

THE TRACE BUILDING SEPTEMBERS AND SEPTEMBERS OF SEPTEMBERS

21(3) AUTHORS:

Krichevskaya, Ye. I., Kapitonova, G. V. SOV/20-123-1-17/56

TITLE:

The Influence of X-Rays on the Histaminopexic Capacity of Tissues (Vliyaniye rentgenovskikh luchey na gistaminopeksicheskuyu sposobnost! tkaney)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 1, pp 68-71

(USSR)

ABSTRACT:

The authors found it of interest to investigate whether the variation of the free histamine level in the tissues under the influence of X-rays observed by them (Ref 12) might not be connected with a disturbance of their histaminopexic capacity. First, experimental methods are investigated, viz. the

determination of the histaminopexic capacity of the tissues and the determination of the free histamine in the tissues. The existence of the histaminopexic capacity of the tissues was investigated under physiological conditions, the test subjects being rats, guinea pigs, and rabbits. The results obtained are shown in a table. All tissues investigated by the authors (the skin of the abdomen, kidneys, liver, stomach, lungs and brain)

Card 1/3

have a considerable histaminic capacity. With the exception of the skin the data obtained with respect to the above-mentioned

The Influence of X-Rays on the Histaminopexic Capacity of Tissues

SOV/20-123-1-17/56

types of animals do not differ from one another. Next, the influence exercised by X-rays upon the histaminopexic capacity of tissues was investigated in the case of 72 white rats. The animals were irradiated with a single lethal dose of 800-1000 r. The skin, kidneys, liver, and the brain were investigated, and results are shown in a table. A single lethal irradiation reduces the histaminopexic capacity of the skin and of the tissues as well as of the kidneys and the brain considerably, whereas the histaminopexic capacity of the liver is not disturbed under the given conditions. The irradiation takes effect very rapidly, and the greatest change occurs already after an irradiation of 5 minutes. The histaminic capacity of the tissues is even more reduced by the death of the animals. Histaminopexy (gistaminopeksiya) exercises a protective influence. Between the change of the level of the free histamine in the tissues and their histaminopexic capacity there is a distinctly causal correlation. Certain protective mechanisms are probably not disturbed by irradiation. One of them is probably histaminase. The present paper leads to the following conclusions:

Card 2/3

The Influence of X-Rays on the Histaminopexic Capacity of Tissues

SOV/20-123-1-17/56

1) Histaminopexic capacity is present not only in the blood but also in other animal tissues.

2) Damage caused by irradiation rapidly and noticeably suppresses the histaminopexic capacity of the tissues.

3) The histaminopexic capacity of the tissues is, without doubt, one of the protective mechanisms which regulate the level of the free histamine in the organism. There are 3 tables and 16 references, 2 of which are Soviet.

ASSOCIATION: Institut biologicheskoy fiziki Akademii nauk SSSR

(Institute for Biological Physics of the Academy of Sciences,

USSR)

PRESENTED:

July 1, 1958, by L. S. Shtern, Academician

SUBMITTED:

June 27, 1958

Card 3/3

17. (1), '21 (3)

AUTHORS:

Gromakovokaya, M. M., Krichevskaya, \_\_\_ SOV/20-126-4-52/62

Ye. I., Rapoport, S. Ya.

TITLE:

The Effect of Antihistamine Preparations on the Development of

Some Early Ray Disturbances (Vliyaniye antigistaminnykh preparatov

na razvitiye nekotorykh rannikh luchevykh narusheniy)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4,

pp 876-879 (USGR)

ABSTRACT:

The importance of histamine for the development of a radiation

syndrome (Refs 1-8) has not yet been fully clarified: different

investigators have different opinions about the efficiency of histamine preparations in reduction sickness. In previous papers (Refs 14, 15) it was proved that already 5 minutes after irradiation a rise in level of the free histamine occurs in various tissues. Their histaminepexy [gistaminopeksicheskaya] power (HPP) decreases. These changes in the chemical composition of the immediate medium of organs and tissues may be important

for the origin of various disturbances in the organism

irradiated. To investigate this problem, antihistamine preparations (Dimedrol and rernovine) were administered to white

Card 1/3rats before irradiation. All investigations were carried out 45

The Effect of Antihistamine Preparations on the Development of Some Early Ray Disturbances

SOV/20-126-4-52/62

minutes after irradiation. The results were summarized as follows: Effect of antihistamine preparations on: 1) the level of histamine, and on the HPP o f t h e tissues o f the animals irradiated (Refs 14, 15) (Table 1); 2) the permeability of the histohematic barriers (HHB) (Table 3); 3) the reflex excitability of the center of the n. vagus (Table 4); 4) the reaction of the marrow o f the bones at total irradiation (Table 5). The results found by the authors show that the administration of the said antihistamine preparations not only prevents the rise in level of free histamine in tissues but also the permeability disturbance of the HHB and the change in the functional state of the vagus center. Finally the early damages to the marrow of the bones are weakened. Thus, it is possible by lowering the level of free histamine originating in the tissues of the animals irradiated - to interrupt the chain of reactions which effect the appearance and development of various ray

Card 2/3

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008264300

The Effect of Antihistamine Preparations on the Development of Some Early Ray Disturbances

SOV/20-126-4-52/62

damages. On the other hand, the results obtained cannot be regarded - due to the complicated action of various antihistamine preparations - as an undisputed proof of the fact that histamine plays an important part in early radiation reactions. According to publication references (Ref 18), such histamine preparations as prometazine and chlorpromazine also inhibit the release of 5-hydroxy-tryptamine. Further investigations are necessary to decide this problem. There are 5 tables and 18 references, 4 of which are Soviet.

ASSOCIATION:

Institut biologicheskoy fiziki Akademii nauk SSSR (Institute of Biological Physics of the Academy of Sciences, USSR)

PRESENTED:

March 5, 1959, by L. S. Shtern, Academician

SUBMITTED:

March 5, 1959

Card 3/3

THE PROPERTY OF THE PROPERTY O

84674

17.1400 3112,5212, also 3012

S/020/60/135/001/030/030 B016/B067

11.6300 AUTHOR:

Krichevskaya, Ye. I.

TITLE:

The Part Played by the Nervous System in the Change of the Level of Free Histamine in the Tissues Under the Action of Ionizing Radiation 14

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 1, pp.193-196

TEXT: In her earlier papers (Refs. 14-16), the author found that the content of free histamine in the animal tissue rises shortly after a single irradiation with a lethal dose of X-rays. A thorough study of the biochemical processes showed that this change is due to a change in activity of the ferment system: histidine decarboxylase - histaminase, and to a reduction of the histamine-fixing property of the tissues. In the present paper, the author attempts to clarify whether the increase in the content of free, biologically active histamine in various organs is the result of a direct action of radiation on the tissue, or whether it is a reflex, similar to other radiation damages. For this purpose, she studied the effect

Card 1/4

84674

The Part Played by the Nervous System in the S/020/60/135/001/030/030 Change of the Level of Free Histamine in B016/B067 the Tissues Under the Action of Ionizing Radiation

of ionizing radiation on the content of free histamine in the tissue with elimination of the receptor apparatus. In most of the cases, it was eliminated with Xylocaine (Ref. 21) which has no antihistamine properties. However, for comparison, she also used Novocaine in a number of experiments. Both preparations were introduced intraperitoneally 15-20 min prior to irradiation. White rats served as test animals. The single radiation was performed by an apparatus Pyn-1(RUP-1) with a dose of 1000 r, the dose rate was 31.4 r/min. The free histamine was determined 45 min after the irradiation. Table 1 shows the results. They indicate that Xylocaine and Novocaine cause no essential reduction of the histamine level in the tissue of normal animals. In anesthetized animals, however, no radiation effect was observed at all. With rats which were injected Novocaine or Xylccaine prior to irradiation, the histamine content of the skin was even somewhat reduced. A slight reduction was also observed in the brain tissue. In the liver, no histamine rise was observed as is usually the case after irradiation. On the basis of these results, the author concludes that the Card 2/4

81,674

The Part Played by the Nervous System in the Change of the Level of Free Histamine in the Tissues Under the Action of Ionizing Radiation

S/020/60/135/001/030/030 B016/B067

radiation effect has a reflex character. This effect disappears if reception is eliminated by means of an anesthetizing preparation. In contrast to the opinion of Ye. P. Stepanyan and D. A. Almoyeva (Refs. 18,19), the author doubts the antihistamine effect of Novocaine (see Table 2). Neither Novocaine nor its decomposition product (paraaminobenzoic acid), but the blood serum itself which has histamine-fixing properties, plays the decisive part in the disappearance of histamine (Ref. 23). Therefore, the absence of the radiation effect (increase of the free histamine content) with the introduction of Xylocaine or Novocaine prior to the irradiation does not signify that these preparations have antihistamine properties. On the contrary, the interruption of the normal as well as of the pathological impulses (as a result of the elimination of the receptor apparatus) which originate from the abdominal cavity during irradiation inhibits the processes causing an increase of the free histamine content in the tissue. The thesis that the radiation effect has a reflex character is confirmed by complementary experiments made by the author. They were Card 3/4

(2017年12月1日) (2017年12月1日) (2017年12月日) (2017年12月1日) (2017年12月日) (2017年12月12日) (2017年12月日) (2017年12月12日) (2017年12月12日)

84674

The Part Played by the Nervous System in the Change of the Level of Free Histamine in the Tissues Under the Action of Ionizing Radiation

s/020/60/135/001/030/030 B016/B067

made with rate whose kidneys had been previously denervated without anesthesia. As was expected, the histamine content in the control kidney increased after irradiation, whereas that in the denervated kidney remained almost normal. The elimination of the afferent way by means of an anesthetizing preparation compensates the radiation effect in the same manner as the elimination of the efferent link by denervation of the kidney by inhibiting the rise of the histamine content in the tissue. There are 3 tables and 25 references: 20 Soviet, 1 US, and 1 French.

ASSOCIATION:

Institut biologicheskoy fiziki Akademii nauk SSSR

(Institute of Biological Physics of the Academy of Sciences,

USSR)

PRESENTED:

April 26, 1960, by L. S. Shtern, Academician

SUBMITTED:

April 5, 1960

Card 4/4

ACCESSION NR: AT3012856

\$/2970/61/000/0048/0056

AUTHOR: Krichevskaya, Ye. I.; Kapitonova, G. V.

TITLE: Effect of ionizing radiation on the histamine level in tissues and its significance in early radiation damage to the histohematic barriers

SOURCE: Gisto-gematicheskiye bar'yery\*: trudy\* soveschaniya, 25-28 maya 1960 g., Moscow, 1961, 48-56

TOPIC TAGS: radiation sickness, ionizing radiation, histo-hematic barriers, histamine level, enzyme activity, histamine binding, histamine liberation, histamine depletion, renal barriers, hepatic barriers, barrier permeability

ABSTRACT: As a continuation of earlier research by the authors (Dokl. AN SSSR, v. 123, no 1), the part played by histamine in the radiation derangement of permeability of the histo-hematic barriers. which is still highly debatable in spite of numerous researches, was investigated. An increase in the free histamine content of var-

Card 1/3

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008264300

ACCESSION NR: AT3012856

ious tissues, except the brain, was noted after a single irradiation with a lethal x-ray dose. The changes result from altered activity of the exzymes that produce and destroy the histamine, as well as from a disturbance in the processes of its binding and liberation. Of great significance is the change in the histominopexic function of the tissues as controlled by the pituitary adrenal system. The radiation changes in the histamine level of the tissues are of a reflex nature. The initial link of this reflex is localized in the abdominal organs. No permeability disturbances were noted in the hemato-encephalic or other histo-hematic (renal and hepatic) barriers to P-32 upon elimination of the radiation changes in the histamine level by antihistamine drugs. The effect of massive liberation and depletion of histamine on permeability disturbances of the hemato-encephalic barrier to acid fuchsin was also noted. Although the material obtained does not lead to final conclusions regarding the role of histamine on the radiation syndrome, it undoubtedly participates in radiation damage to the permeability of histo-hematic barrier. Orig. art. has: 9 tables.

PROPERTY OF THE PROPERTY OF TH

Card 2/3

ACCESSION NR: AT3012856

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Institute of Biological Physics, AN SSSR)

SUBMITTED: 00

DATE ACQ: 12Ju163

ENCL: 00

SUB CODE:

BC

NO REF SOV: 007

OTHER: 013

Card 3/3

ACCESSION NR: AT3011782

s/2949/63/000/000/0140/0158

AUTHOR: Krichevskaya, Ye. I.; Kapitonova, G. V.

TITLE: Ionizing radiation effect on mechanisms regulating free histamine level in the organism

SOURCE: Gisto-gematicheskiye bar'yery\* i ioniziruyushchaya radiatsiya. Sbornik rabot laboratorii fiziologii. Moscow, AN SSSR, 1963, 140-158

TOPIC TAGS: ionizing radiation, lethal X-radiation dose, free histamine, free histamine level mechanism, chromatographic method, radiation damage, hypophysical-adrenal system, tissue bond forming capacity, brain tissue, histamine level shift, reflex nature, direct nutritive medium

ABSTRACT: Experimental white rats were X-irradiated with single lethal doses of 600-1000 r (RUP-1 unit, 50 r/min). At different periods after irradiation free histamine content was determined by a modified chromatographic method in the following tissues: brain, skin, stomach, liver, and kidneys. Results show that free histamine increases shortly after irradiation in all tissues studied except the Cord 1/2

ACCESSION NR: AT3011782

brain and decreases before death. Absence of free histamine level change in the brain indicates effective protective mechanisms for providing the central nervous system with a relatively constant direct nutritive medium despite radiation damage in the organism. The radiation reaction mechanism for increasing histamine varies in different organs. In some organs it depends mostly on freeing the histamine and in others on activating its formation. These processes are greatly affected by the depressed capacity of tissues to form the hypophysical-adrenal system. The feflex nature of histamine damage. Orig. art. has: 9 tables.

ASSOCIATION: Laboratoriya fiziologii. Moscow. AN SSSR (Physiology Laboratory. AN SSSR)

SUBMITTED: 00

DATE ACQ: 070ct63

ENCL: 00

SUB CODE: AM

NO REF SOV: 028

OTHER: 064

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008264300

· TO STATE STATE STATE OF THE STATE OF THE STATE STATE OF THE STATE OF

RAPOPORT, S. Ya.; KRICHEVSKAYA, Ye. I.; ZUBKOVA, S.R.

Interaction of biogenic amines in the mechanism of the protection from the effect of ionizing radiation by histamine. Dokl. AN SSSR 155 no. 5:1198-1200 Ap 164. (MIRA 17:5)

1. Institut biologicheskoy fiziki AN SSSR. Fredstavleno akademikom L.S.Shtern.

ACCESSION NR: AP4034549

S/0020/64/155/005/1198/1200

AUTHOR: Rapoport, S. Ya.; Krichevskaya, Ye. I.; Zubkova, S. R.

TITLE: Interaction of biogenic amines in the mechanism by which histamine protects against the effect of ionizing radiation

SOURCE: AN SSSR. Doklady\*, v. 155, no. 5, 1964, 1198-1200

TOPIC TAGS: catecholamine, serotonin, histamine, radiation protection, sympathetic nervous system

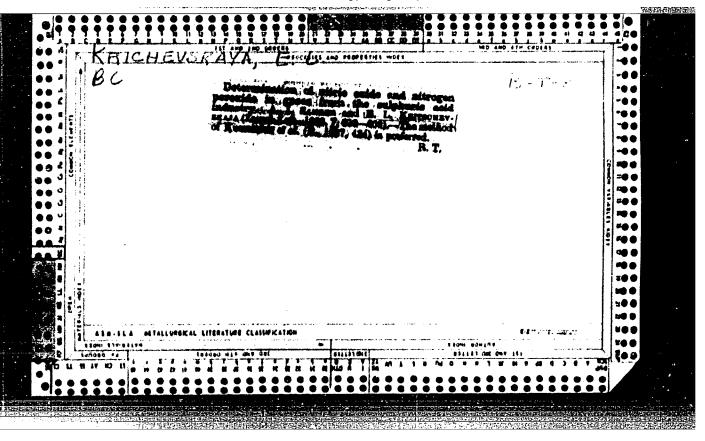
ABSTRACT: The interaction of biogenic amines in the mechanism by which histamine protects against the effect of ionizing radiation is discussed, as well as the assumption that this protection is accomplished through the liberation of certain amines in the tissues. The present work aimed at elucidating the role of catecholamine and serotonin in the above mechanism by conducting 3 series of experiments on white rats: a—functional exclusion of the sympathetic nervous system by ergo-

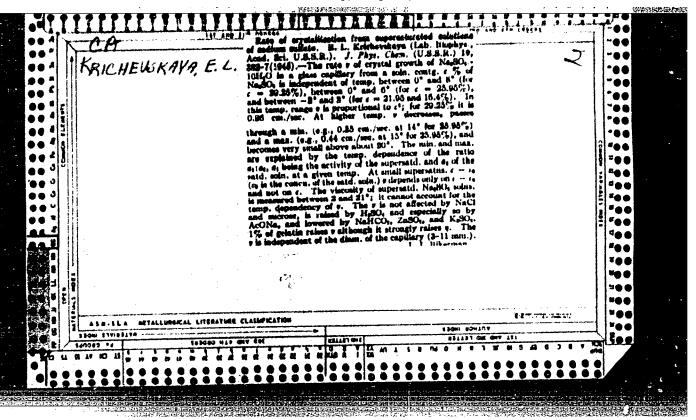
ard 1/3

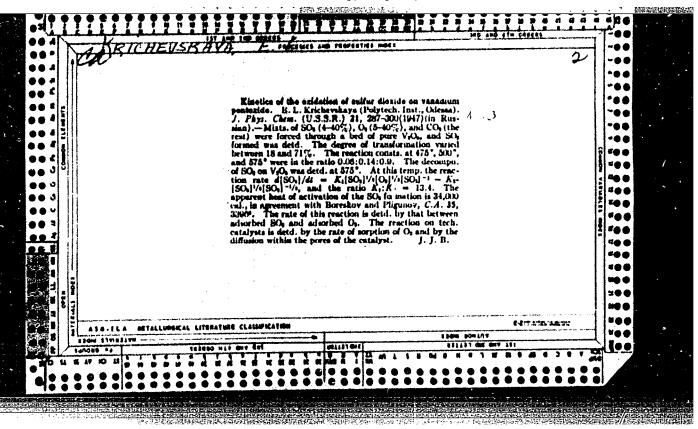
# ACCESSION NR: AP4034549

tamine,b - depletion of catecholamine and serotonin stores by prior reserpine administration, c -- introduction of the serotonin antagonist, lysergic acid diethylamide. Experimental conditions are described (600 r irradiation, amounts, manner, and route of drug administration). The histamine (35-50 mgper rat) was 5 minutes before irradiation. Results are tabulated and show that histamine alone protected 34.8% of the animals. This effect was reduced upon prior blocking of the sympathetic nervous system and upon catecholamine and serotonin depletion. The important role of catecholamine in histamine protection was clearly seen in tests excluding the sympathetic nervous system (reduction of survival rate by 20% only). Introduction of the serotonin antagonist did not affect the protective histamine effect; thus serotonin may be assumed not to play a significant role in this effect. These findings were confirmed in tests to determine catecholamine content in the adrenals, and serotonin in the upper intestinal tract and brain after histamine introduction. Five minutes after histamine administration the catecholamine in the adrenals was considerably reduced, while no change was detected in serotonin content. Orig. art. has:

						15, a.e. 1. 14. 14
ACCESSION N	R: AP4034541	)		*===±:	<u>عمد نحسر جود</u>	
ASSOCIATION Biophysics, A	: Institut bio cademy of Sc	logicheskoy fiziki Akaden lences SSSR)	nii nauk SSSR	 (Inst	itute of	
SUBMITTED:	03Jul63	ATD PRESS: 3060	BNCL:	00	•	
SUB CODE:	e, oc	NO REF SOV: 001	OTHER	: 007	•	,
			· ·	<b>19</b>		
· 3/3	.t 			• •		

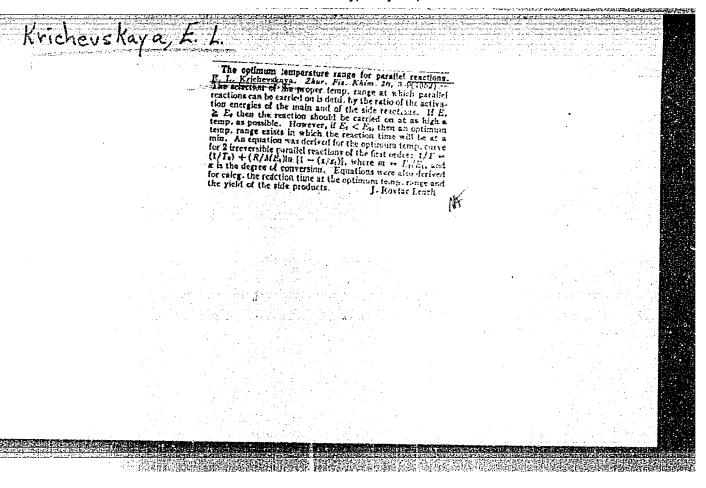




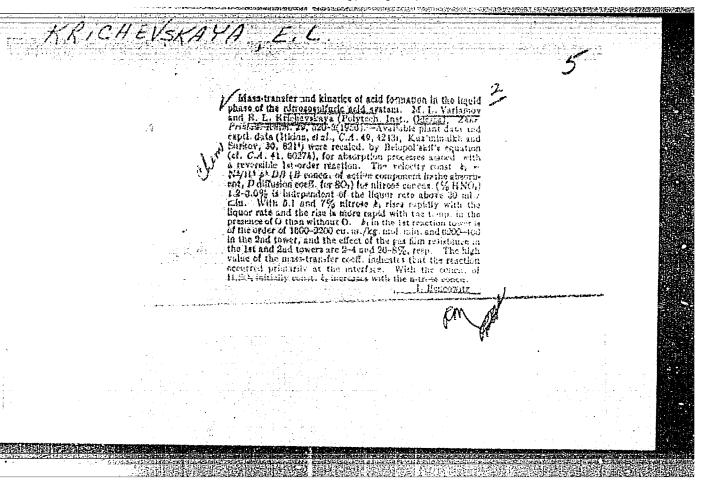


# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP8

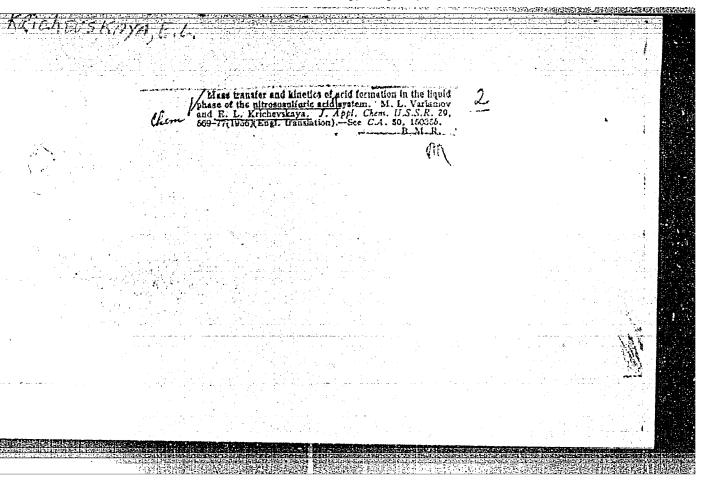
### CIA-RDP86-00513R000826430



### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826430



# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826430



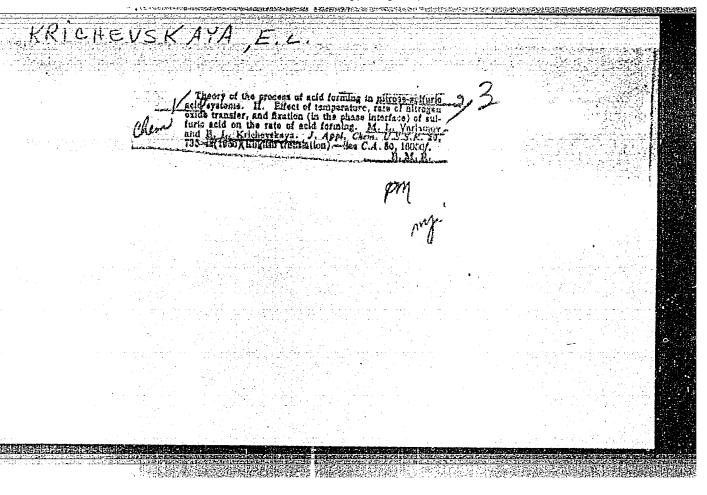
VARLAMOV, M.L.; KRICHEVSKAYA, Ye.L.

Effect of temperature, transference rate for nitrogen oxides, and of the increased strength of sulfuric acid on the rate of acid formation. Zhur.prikl.khim. 29 no.5:675-682 My '56.

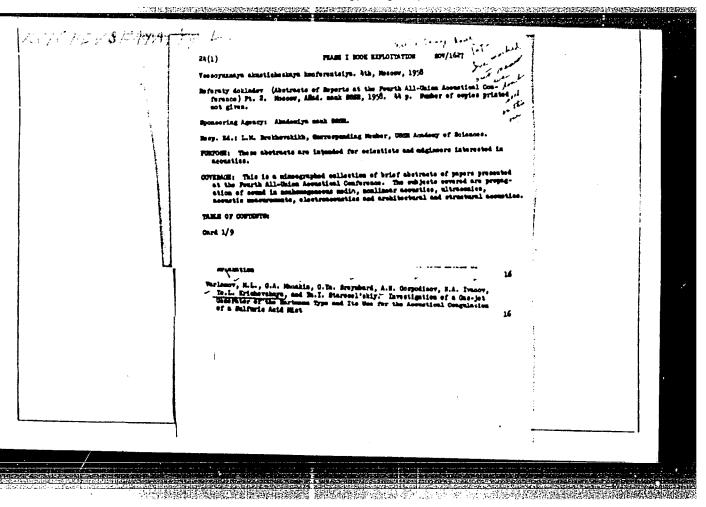
(MLRA 9:8)

1. Odesskiy politekhnicheskiy institut.
(Nitrogen oxides) (Sulfuric acid)

# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826430



# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826430



VARLAMOV, M.L.; KRICHEVSKAYA, Ys.L.

Expressing the concentration of sulfuric acid in nitrose. Isv.
vys.ucheb.sav.; khim.i khem.tekh. 2 no.6:904-908 '59.
(MIRA 13:4)

1. Odesskiy politekhnicheskiy institut. Kafedra tekhnologii i
avtomatizatsii khimicheskikh proisvodstv.
(Eitrosylsulfuric acid)
(Sulfuric acid)

S/194/62/000/004/065/105 D295/D308

AUTHORS:

Varlamov, M. L., Krichevskaya, Ye. L., Manakin, G. A.,

Znan, A. A., Kozakova, L. M. and Zbrozhek, L. S.

TITLE:

Investigation of the acoustical coagulation of aero-

sols formed in chemical factories

PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 4, 1962, abstract 4-5-38g (V sb. Primeneniye ul'traakust. k issled. veshchestva. no. 12, M., 1960,

199-204)

TEXT: The coagulation of mists of sulphuric acid, of solutions of ammonium nitrate and nitride, of silicon-fluorhydric acid and coaldust was investigated. Mists were precipitated in horizontal tubes of 45 mm diameter and 500 - 950 mm length, and dusts in vertical tubes. PC-2 (GS-2) generators, with a separating membrane of thin rubber, were used for sound-irradiating the gas. Coagulation monitoring was carried out by chemical and nephelometric control methods, as well as by determining the numerical concentration of Card 1/2

Investigation of the ...

\$/194/62/000/004/065/105 D295/D308

particles by means of the  $\gamma n\phi$ -3 (UMT-3) ultramicroscope. The concentration of  $H_2SO_4$  mist amounted to 0.3 - 10.6 g/cm<sup>3</sup>; at an / ir- radiation / level of 153 - 155 dB for the curation of 4 - 5 sec the degree of coagulation reaches 97 - 99%. The best results were obtained at frequencies of 16 and 22 kc/s. Data were presented on coagulation of mists containing fluorine compounds. / Abstracter's note: Complete translation. /

Card 2/2

34,1500

5/058/62/000/003/055/092 A061/A101

AUTHORS:

Varlamov, M. L., Manakin, G. A., Krichevskaya, Ye. L., Gospodinov,

A. N.

TITLE:

A study of the acoustic field of a gas-flow sound generator of the

Hartmann type

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 3, 1962, 38, abstract 36304 (Sb.

"Primeneniye ul'traakust. k issled. veshchestva", no. 12, Moscow,

1960, 205-213)

TEXT: A gas-flow sound generator  $\bar{c}$  (GS-2) (of the Hartmann type) was worked out to study the acoustic coagulation process in aerosols. The acoustic field obtained with the GS-2 generator was examined and so was the effect of the tuning parameters (distance between nozzle and resonator, depth of resonator) on the intensity and frequency of sound in the free field with different diameters of both nozzle and resonator. The acoustic field was found to be remarkably inhomogeneous. Diagrams of sound directivity in the horizontal and vertical planes were plotted. Using a reflector, it was possible to obtain a directed acoustic energy beam of an intensity up to 5 w/cm<sup>2</sup> or 167 db. The sound

/ß

Card 1/2

A study of the acoustic field ...

3/058/62/000/003/055/092 A061/A101

intensity considerably depends on the frequency which was chiefly determined by the resonator depth. A series of optimum frequencies was found, where intensity passed through maxima. The distance between nozzle and resonator, their diameters the reflector position, and the pressure of compressed air blown through the generator are of no significant influence upon the optimum frequencies. Frequency and intensity of sound depend not only on the design parameters of the generator and on its size, but also on the direction in which these parameters have changed. This is related to the phenomenon called the hysteresis of sound. Hysteresis may be observed in a definite region, where all design parameters are changed. There are 16 references.

[Abstracter's note: Complete translation]

Card 2/2

### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826430

24.1900

77494 SOV/80-33-1-3/49

AUTHORS:

Varlamov, M. L., Krichevskaya, Ye. L., Manakin, G. A., Kozakova, L. M., Gospodinov, A. N.

TITLE:

Acoustic Coagulation of Sulfuric Acid Fog

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 1, pp 14-20 (USSR)

ABSTRACT:

Acoustic coagulation of sulfuric acid vapors (which is an effective method for purification of air from

finely dispersed  $(10^{-1}-10^{-2})$  aerosols) was studied using the installation shown in Fig. 1 (which

also includes devices for generation of the fog).

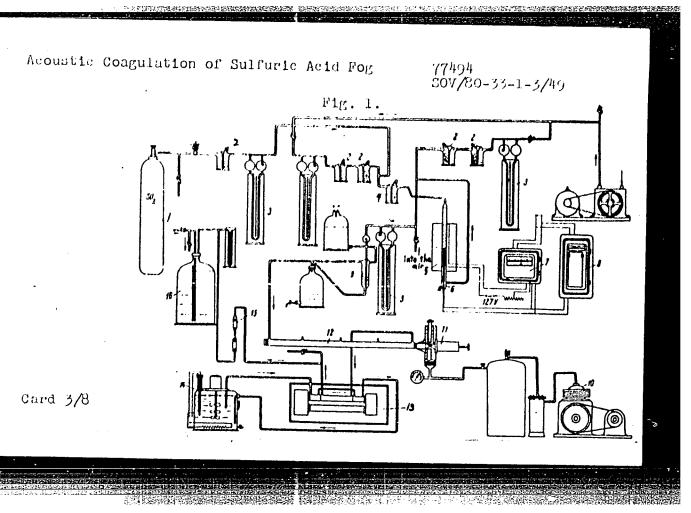
Card 1/8

Acoustic Coagulation of Sulfuric Acid Fog

77494 SOV/80-33-1-3/49

Fig. 1. Diagram of installation for generation of sulfuric acid fog and for study of acoustic coagulation of the fog. (1) Gas cylinder; (2) gas scrubbers; (3) h rheometers; (4) mixer (SO<sub>2</sub> + air); (5) contact oven; (6) thermocouple; (7) electronic thermoregulator; (8) recording galvanometer; (9) humidifier; (10) compressor; (11) gas jet sound generator; (12) coagulation pipe; (13) photonephelometer; (14) ultrathermostat; (15) absorption tubes; (16) aspirator.

Card 2/8



APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008264300

Acoustic Coagulation of Sulfuric Acid Fog

77494 80V/80-33-1-3/49

Vapors of sulfuric acid were obtained by mixing water vapor with sulfuric anhydride (obtained by oxidation of  $SO_2$  with air in the contact oven (5)) in the humidifier (9). The gas jet generator GS-2 (11)—the modified Hartmann (Gartman) whistle (constructed in Odessa Polytechnical Institute with participation of N. A. Ivanov)—was used for inducing coagulation in the glass tube (12) 45 mm diam, length 500 mm). Sound frequency was measured with an EO-7 oscillograph and ICh-6 frequency meter. The coagulated fog was analyzed by photonephelometer (13). To prevent vapor condensation, the face glasses of the sample tubes of the nephelometer were kept at 55° by circulating water from the thermostat (14). The nephelometer values were compared with the data of chemical analysis (of  $H_2SO_4$ ). The analysis of acoustic coagulation of  $H_2SO_4$  fog has shown that

Card 4/8

Acoustic Congulation of Sulfuric Acid For

77494 SOV/80-33-1-3/49

there are optimum frequencies for congulation at each sound intensity; increasing acoustic power displaces this optimum toward the lower frequencies (see Fig 2).

Fig. 2. Final concentration of sulfuric acid fog as function of sound frequency at varying acoustic power of the generator. (A) Photonephelometer readings (in scale divisions);
(B) frequency (in kcycles). Generator power (in watts): (a) 5; (b) 2.5.

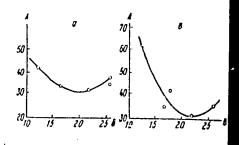


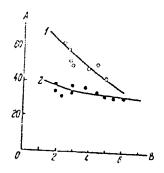
Fig. 3 shows variation in degree of fog coagulation with change in acoustic power at constant frequency.

Card 5/8

Acoustic Coagulation of Sulfurle Acid Fog

77494 SOV/80-33-1-3/49

Fig. 3. Final concentration of H<sub>2</sub>SO<sub>4</sub> fog as function of acoustic power. (A) Readings of photonephelometer (in scale divisions); (B) acoustic power (in watts). Frequency (in Kcycles) (1) 12.1; (2) 21.6.



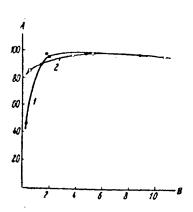
It can be seen that coagulation increases with increasing sound intensity, but the higher frequencies make this effect less pronounced. Effect of initial concentration of H2SO4 fog upon coagulation is shown in Fig. 4 (time of sounding 4.7 sec; gas flow 5.8 l/min).

Card 6/8

Acoustic Coagulation of Sulfuric Acid Fog

77494 SOV/80-33-1-3/49

Fig. 4. Degree of coagulation of  $H_2SO_4$  fog as function of initial vapor concentration (in g  $H_2SO_4/m^3$  at STP). Frequency (in kcycles): (1) 14.6; (2) 25.5.



Card 7/8

Better than 97% coagulation is achieved at 1.7-8.7 g/m<sup>3</sup> concentration of  $\rm H_2SO_{ij}$ . Increase of initial fog concentration above 5 g/m<sup>3</sup> leads

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-0

CIA-RDP86-00513R000826430(

Accustic Coagulation of Sulfuric Acid Fog

77494 SOV/80-33-1-3/49

to a gradual decrease in coagulation. Plot of coagulation degree vs. the time of sounding resulted in S-shaped curves. By changing the character of sound, it was found that conditions for formation of stationery sound waves are more favorable (time of sounding can be shortened 1.5 times for 100% coagulation). There are 5 figures; 2 tables; and 27 references, 8 Soviet, 3 German, 1 French, 1 Japanese, 4 U.K., 8 U.S., 2 unidentified. The 5 most recent U.K. and U.S. references are: R. T. Hueter, R. H. Bolt, Sonics Techniques for Use of Sound and Ultrasound in Engineering and Science, N. Y. (1955); Melvin Nord, Chem. Eng., 116 (1950); E. K. Neuman, L. Norton, Chem. Eng. Progr. Symp., 1, 47, 4 (1951); E. Brum, R. M. G. Boucher, J. Acoust. Soc. Am., 29, 5, 573 (1957); H. W. Danser, E. P. Neuman, Ind. Eng. Ch., 41, 2439 (1949). June 13, 1959

SUBMITTED:

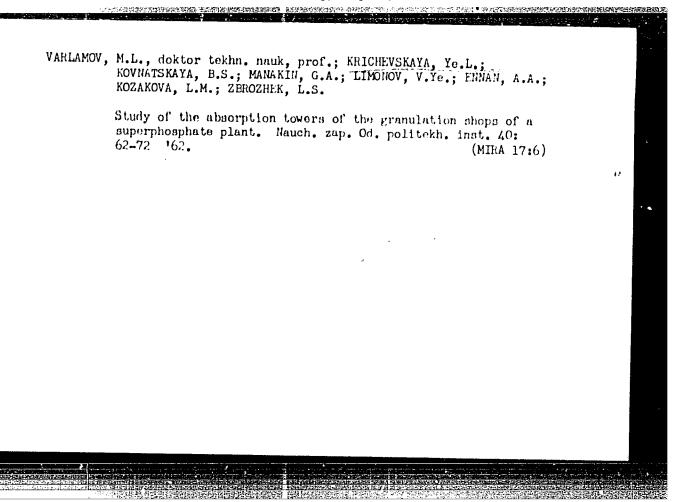
\* Abstracter's note: The unidentified references are: L. Pimonov, Anan. Telecommun., 6, 1, 25 (1951); 6, 11, 337 (1951); J. Hartmann, The Acoustic Air Jet Generator, Ingeniorvidenskabelige Schrifter, 4 (1939).

Card 8/3

VARLAMOV, M.L.; KRICHEVSKAYA, Ye.L.; ENNAN, A.A.; KOZAKOVA, L.M.; MANAKIN, G.A.

Acoustic coagulation of a fog containing fluorine compounds. Zhur. prikl. khim. 34 no.1:78-84 Ja '61. (MIRA 14:1)

1. Kafedra tekhnologii i avtomatizatsii khimicheskikh proizvodstv Odesskogo politekhnicheskogo instituta. (Ultrasonic coagulation) (Fluorine)



# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826430

VARIATION, H. L., MANAKIN, G. A., PRETITARD, G. Ya., GCEPGDINOV, A. H., IVANOV, H. A. IRIGHEWCHAYA, R. M., and STARCSELSKIY, Ya. I.	
"Investigation of a Hartmen Gas-Jet Generator and its Application in Acoustic Goagulation of a Sulfuric Acid Hist."	
paper presented at the 4th All-Union Conf. on Accustics, Reserve, 26 May - & Jun 58.	

AREALYSANYA, YELL

KRICHEVSKAIA, E. R., ROSENELATT, M. S., BRUK, B. F.

Importance of examination of gastric and bronchial lavage for tubercle bacilli. Probl, tuberk., Noskva No. 3, Nay-June 50. p. 9:12

1. Of the Scientific-Research Institute for Tuberculosis in Odensa (Director-Docent Ya. I. Rozonblit).

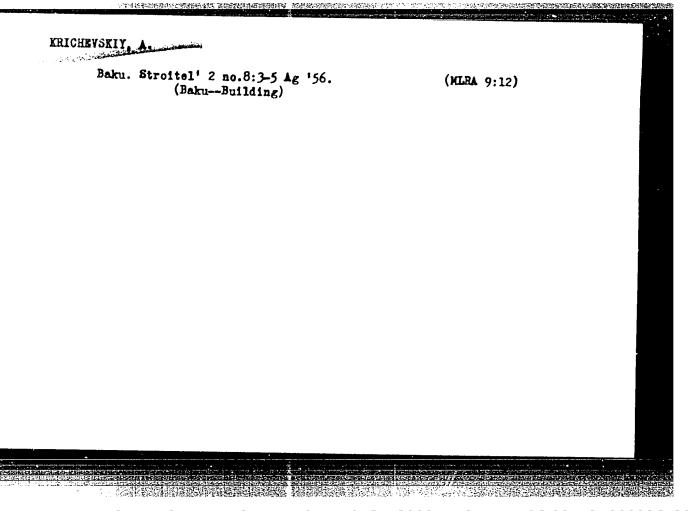
CLIE 19, 5, Nov., 1950

OSHAROV, P.; PAGIN, V.; TESLYA, Ye., inzh.; CHERNOVA, Ye.; KOPTEV, A.; LAZUTIN, P.; ANISHCHENKOV, T., instruktor; TOKAREV, S.; HERSON, S.; KRICHEVSKIY, A.

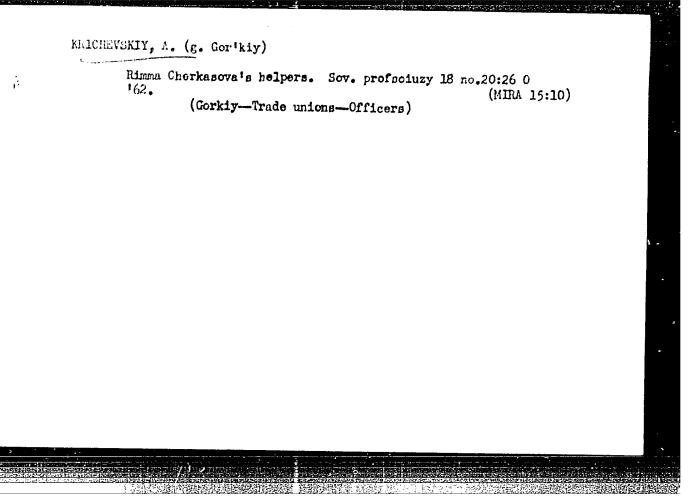
They have too far to go. Sov. profsoiuzy 18 no.5:40-41 Mr '62.

(MIRA 15:3)

- 1. Reydovaya brigada zhurnala "Sovetskiye profsoyuzy".
- 2. Krasnoyarskiy krayevoy komitet profsoyuza rabochikh stroitel'stva i promyshlennosti stroymaterialov (for Koptev). 3. Posadchik prokatnogo tsekha zavoda "Sibelektrostal'" (for Lazutin).
- 4. Krasnoyarskiy krayevoy komitet profsoyuza rabotnikov mestnoy promyshlennosti i kommunal'nogo khozyaystva (for Anishchenkov).
- 5. Zaveduyushchiy lektorskoy gruppoy Krasnoyarskogo krayevogo soveta profsoyuzov (for Tokarev). 6. Zaveduyushchiy otdelom krayevoy gazety "Krasnoyarskiy rabochiy" (for Berson). 7. Spetsial'nyy korrespondent zhurnala "Sovetskiye profsoyuzy" (for Krichevskiy). (Krasnoyarsk--City planning)



# KRICHEVSKIY, A., kincoperator See the film "Steps of the seven-year plan." Scv.foto 21 no.12:18 D'61. (HIRA 14:12) 1. TSentral'naya studiya dokumental'nykh fil'mov na vystavke "Semiletka v deystvii". (Hotion pictures, Documentary)



APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008264300

MIKHAYLOVA, T., dotsent; KRICHEVSKIY, A. (Orel)

Friendship between a factory and an institute. Sov. profsoiuz/
18 no.2:31 Ja '62. (MIRA 15:4)

1. Pedagogicheski, institut, g. Orel (for Mikhaylova).
2. Spe tsial'nyy korrespondent zhurnala "Sovetskiye profsoyuzy".

("Orel—Evening and continuation schools)